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**AMENDMENTS TO THE CLAIMS:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Please cancel claims 1-16.

17. (New) Method for production of a component, comprising a micro-structured substrate and a complementary element assembled by means of an assembly joint, method comprising fabrication of the assembly joint by:

- a first step of deposition of a thin layer of polymer on a transfer substrate,
- a second step of bringing the micro-structured substrate and the thin polymer layer into contact,

a third step of removing the transfer substrate so that the assembly joint is formed by the zones of the thin polymer layer coming into contact with the micro-structured substrate in the course of the second step,

method wherein the transfer substrate is flexible and removal of the transfer substrate is performed by pulling the latter via one end, the micro-structured substrate and the thin polymer layer having a greater chemical affinity than the chemical affinity between the transfer substrate and the thin polymer layer.

18. (New) Method for production according to claim 17, comprising a cross-linking step of the thin polymer layer between the first and second steps.

19. (New) Method for production according to claim 17, comprising a chemical activation step of the thin polymer layer deposited on the transfer substrate between the first and second steps.
20. (New) Method for production according to claim 17, comprising a chemical activation step of the micro-structured substrate between the first and second steps.
21. (New) Method according to claim 17, wherein the transfer substrate is made from Polydimethylsiloxane (PDMS).
22. (New) Method according to claim 17, comprising, after the third step, a chemical activation step of the assembly joint arranged on the micro-structured substrate.
23. (New) Method according to claim 17, comprising a chemical activation step of the complementary element.
24. (New) Method according to claim 17, wherein the micro-structured substrate comprises at least one bearing zone acting as support for the transfer substrate in the course of the second step.
25. (New) Method according to claim 17, wherein the transfer substrate is flat.
26. (New) Method according to claim 17, wherein the transfer substrate is micro-structured.

27. (New) Method according to claim 17, wherein the polymer material of the thin polymer layer is chosen from among thermo-hard resins, elastomers and elastomer thermoplastics.

28. (New) Method according to claim 27, wherein the polymer material of the thin polymer layer is Polydimethylsiloxane (PDMS).

29. (New) Component, produced by the method according to claim 17, wherein the complementary element is a cover.

30. (New) Component, produced by the method according to claim 17, wherein the complementary element is another micro-structured substrate.

31. (New) Component, produced by the method according to claim 17, wherein the complementary element is a capillary or a matrix of capillaries secured to one another.